# PE/Cyanine7 Anti-Mouse CD122 Antibody[TM-Beta 1]

**Catalog Number:** AN00418UH

**Note:** *Centrifuge before opening to ensure complete recovery of vial contents.*

## Description

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| **Reactivity** | Mouse |
| **Host** | Rat |
| **Isotype** | Rat IgG2b, κ |
| **Clone No.** | TM-Beta 1 |
| **Isotype Control** | PE/Cyanine7 Rat IgG2b, κ Isotype Control[LTF-2] [Product E-AB-F09842H] |
| **Conjugation** | PE/Cyanine 7 |
| **Conjugation Information** | PE/Cyanine7 is designed to be excited by the Blue (488 nm), Green (532 nm) and yellow-green (561 nm) lasers and detected using an optical filter centered near 775 nm (e.g., a 780/60 nm bandpass filter). |
| **Storage Buffer** | Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer. |

## Applications — Recommended usage

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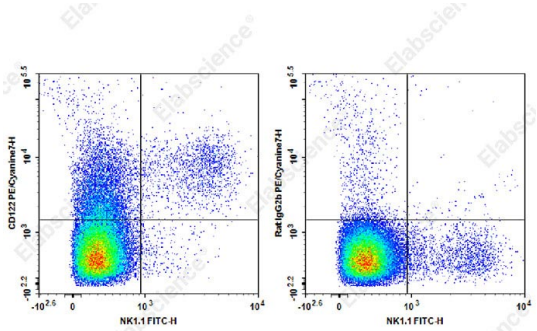
| **FCM** | Each lot of this antibody is quality control tested by flow cytometric analysis. Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use. We suggest each investigator should titrate the reagent to obtain optimal results [The recommended concentration is 0.1-1 μg/$10^6$ cells in 100 μL volume]. |

## Data




Staining of C57BL/6 murine splenocytes cells with FITC Anti-Mouse NK1.1 Antibody and PE/Cyanine7 Anti-Mouse CD122 Antibody[TM-Beta 1] (left) or PE/Cyanine7 Rat IgG2b, κ Isotype Control (right). Total viable cells were used for analysis.

## Preparation & Storage

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| **Storage** | Keep as concentrated solution.<br>This product can be stored at 2-8°C for 24 months. Please protected from prolonged exposure to light and do not freeze. |
| **Shipping** | Ice bag |

## Antigen Information

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| **Alternate Names** | IL-2 Receptor β chain;IL-2Rβ |
| **Uniprot ID** | P16297 |


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|---|---|
| **Gene ID** | 16185 |
| **Background** | CD122 is a 70-75 kD IL-2 receptor β chain also known as IL-2Rβ, which is also shared by the IL-15 receptor. It is constitutively expressed by NK cells and at lower levels by T cells, B cells, monocytes, and macrophages. The IL-2Rβ chain can combine with either the common γ subunit (γc, CD132) alone or with the γc subunit and the IL-2Rα subunit (CD25) to generate intermediate or high affinity IL-2 receptor complexes, respectively. CD122 expression levels can be upregulated by activation. The TM-β1 antibody does inhibit IL-2 binding to the IL-2 receptor. CD122 is expressed on murine, but not human, CD8+ Tregs involved in the maintenance of T cell homeostasis. |


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